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From: Willapa Bay (DFW)
Sent: Thursday, September 9, 2021 7:40 PM
Subject: 2021 Willapa Bay In-Season Update August 23 - 29 - management week 36
Attachments: 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft week 36.pdf; Naselle Hatchery Adult CHK Summary 09.09.2021.pdf; 2021 WB Hatchery Chinook Eggtake 09.09.2021.pdf; 2021 WB Commercial Impacts by area total catch summary week 36 09.09.2021.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Everyone,

This week's email will provide you an in-season update on the Willapa Bay marine area 2.1 recreational fishery from August 30 - September 5, 2021 (management week 36), information on hatchery Chinook broodstock at our Willapa Bay facilities, spawning ground surveys, and the Willapa Bay commercial fishery.

Recreational Marine Fishery

Since our last update, we saw a significant increase in effort and catch of hatchery Chinook and hatchery coho for the week. Last week (management week 36) was our peak week for the 2021 season for effort and catch. We observed more effort during the week compared to the weekend. We estimated effort increased 41% compared to the previous week, which resulted in an estimated 67 more hatchery Chinook salmon and 103 hatchery coho caught. Our dockside staff reported our highest number of landed fish last management week on Wednesday, September 1. There were late morning and afternoon high tides as well as minus low water tides, which typically contributes to less fish biting. (*See attachment: 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft week 36.pdf*)

The boat survey work shows 97.7% of the boats fishing this year in the Willapa Bay marine area 2.1 are exiting the fishery either in Tokeland or South Bend. This is a slight increase compared to the previous week. These are the locations where we have staff dockside monitoring four days a week. Only 2.3% of boats are exiting the fishery at a location not monitored by our dockside staff.

For this week, there are afternoon high tides with a larger tidal exchange and several minus tides at low water. This tide series will continue through Monday, September 13, when we will transition back to smaller tidal exchanges (no minus tides). Angler effort is expected to decline over the next 2 weeks as anglers go back to work, kids go back to school, and hunting season begins. We will begin reducing our staff time on the docks after next week as we begin spawner surveys and hatchery broodstocking, however, we will continue to monitor at a reduced capacity through the end of September.

Hatchery Chinook Rack Returns

Naselle Hatchery:

To-date, 173 adult and 14 jack Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. Of these 173 Chinook salmon, four adult males and one jack were unmarked, and hatchery staff passed these fish upstream above the weir. To-date, there have been 21 Chinook salmon mortalities (11 male, 10 females, 0 jacks) reported in the Naselle Hatchery. Currently, only 72% of the total number of hatchery Chinook salmon have recruited into the Naselle Hatchery compared to this same management week last year (2020).

(See attachments: *Naselle Hatchery Adult CHK Summary 09.09.2021.pdf* AND *2021 WB Hatchery Chinook Eggtake 09.09.2021.pdf*)

Nemah and Forks Creek hatcheries:

To-date, no fall Chinook salmon have recruited into the hatchery.

Spawning Ground Surveys

Staff have continued walking stream surveys below the weir in Nemah and Naselle rivers since August 2, 2021. No spawning activity or redds have been observed in either location. Staff observed approximately 1,100 live Chinook in the Naselle River and approximately 130 live Chinook in the Nemah River staging below the weirs this week. Staff are also surveying the Lower South Fork Willapa River, Trap Creek, and the mainstem Willapa River. Staff have witnessed a few live Chinook in the South Fork Willapa River over the last three weeks but no redds have been observed. Traditionally, Chinook begin spawning in Willapa Bay rivers in the middle of September. Thus, we should find our first Chinook redds next week if Chinook continue their historical spawning trends.

Commercial Fishery

The commercial fishery was open to fishing last week on Friday, September 3, in areas 2N and 2M. Twelve boats participated in this one-day fishery using tangle net gear. There were 810 hatchery Chinook salmon and 109 coho landed from the fishery. The fleet also accrued 39 local natural origin Chinook impacts during this opener. Effort was less than anticipated. Hatchery and natural Chinook encounters were higher than predicted preseason for statistical week 36. (See attachment: *2021 WB Commercial Impacts by area total catch summary week 36 09.09.2021.pdf*)

This week, the commercial fishery will occur tomorrow, September 10, in areas 2N and 2M using tangle net gear. An update from this opener will be provided in next week's update email.

As mentioned above, if you have any comments or questions specific to the information provided in these emails, please submit your comments to WillapaBay@dfw.wa.gov.

Additionally, if you know of anyone who might be interested in receiving these in-season update emails or any other information we send out regarding Willapa Bay fisheries, please forward this email and have them reply to WillapaBay@dfw.wa.gov stating they would like to be added to our email distribution list.

Thank you and Fish On! ><(((°>
Barbara McClellan
Willapa Bay Fisheries Management
WDFW Region 6 Montesano

***We want to remind everyone that this distribution list is intended to be a pathway to disseminate information to those who have signed up to hear updates from Region 6 staff, and not a place to air your personal opinions. Folks who abuse the Willapa Bay mailer will be removed from the list without warning.*

Online reference links you may be interested in:

Willapa Bay Marine Area 2.1 Recreational Creel

Monitoring: <https://wdfw.wa.gov/fishing/reports/creel/willapa-bay>

Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon Fisheries (regulations and landed catch): <https://wdfw.wa.gov/fishing/commercial/gillnet#information>

In-season Estimates of Effort and Salmon Catch
2021 Willapa Bay Marine Area Recreational Mark Selective Chinook and Coho Fishery

updated 9/7/2021

All data is preliminary and subject to change

Marked = Adipose fin clipped

Unmarked = Adipose fin not clipped

					Catch Estimates				
Month	Week	Dates	Regulation	Estimated		Retained Chinook		Retained Coho	
				Boats	Anglers	Unmarked	Marked	Unmarked	Marked
June (Ocean Area 2 rules)	25	Jun 19 & 20	No Coho retention allowed	8	26	0	0	0	0
	26	June 21 - 27		9	22	0	0	0	1
	27	June 28 - Jul 4		13	32	0	0	0	0
July (Ocean Area 2 rules)	28	July 5 - 11	No wild Coho retention allowed	26	55	0	0	0	0
	29	July 12 - 18		26	63	0	2	0	3
	30	July 19 - 25		61	135	9	8	0	0
	31	July 26 - Aug 1		20	44	0	3	0	4
Total to Date				163	377	9	13	0	8

Estimated Willapa origin Chinook Impacts	
Unmarked	Marked
0	0
0	0
0	0
0	0
0	0
0	1
3	3
0	1
3	4

For June and July, dockside sampling was conducted only at the Tokeland boat launch and marina

					Estimated Catch						Estimated Encounters			Estimated Catch			
					Retained Chinook						Released Chinook			Retained Coho			
Month	Week	Dates	Regulation	Estimated		Marked	Marked CPUE	Marked WB origin impacts	Unmarked	UM CPUE	UM WB origin impacts	Unmarked Encounters	UM CPUE	UM WB origin impacts	Marked	Marked CPUE	Unmarked
				Boats	Anglers												
August	31	8/1/2021 only	No wild coho or wild Chinook retention allowed	57	129	17	0.128	10	0	0.000	0	8	0.064	1	0	0.000	0
	32	Aug 2 - 8		301	633	59	0.094	37	0	0.000	0	20	0.032	2	6	0.009	0
	33	Aug 9 - 15		371	794	86	0.108	53	0	0.000	0	27	0.034	2	0	0.000	0
	34	Aug 16 - 22		591	1,317	145	0.110	90	0	0.000	0	69	0.052	6	3	0.002	2
	35	Aug 23 - 29		504	1,066	153	0.144	95	0	0.000	0	109	0.102	9	21	0.019	0
September	36	Aug 30 - Sept 5		710	1,529	220	0.144	136	0	0.000	0	136	0.089	12	124	0.081	0
	37	Sept 6 - 12															
	38	Sept 13 - 19															
	39	Sept 20 - 26															
	40	Sept 27 - 30															
Total to Date				2,534	5,468	680		421	0		0	369		32	154		2

These data represent the estimated expanded values (not raw data).

No jacks included in estimates.

For Aug and Sept., dockside sampling was conducted at Tokeland and South Bend

Strata 1 - Mon - Thurs

Strata 2 - Fri - Sun

CPUE = Catch per unit effort

Effort = An individual angler trip

2021 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft

Updated 9/7/2021

Willapa Bay Natural-Origin Fall Chinook							Willapa Bay Hatchery-Origin Fall Chinook				
Mgmt Wk	Date	Harvest Rate Proportions	Preseason Prediction		In-season Estimate		Harvest Rate Proportions	Preseason Prediction		In-season Estimate	
			NOR	Cumulative Total	WB Origin	Cumulative Total		HOR	Cumulative Total	WB Origin	Cumulative Total
25	6/19 - 6/20	0.0338	0	0	0	0	0.0048	0	0	0	0
26	6/21 - 6/27	0.0338	0	0	0	0	0.0048	0	0	0	0
27	6/28 - 7/4	0.0338	3	3	0	0	0.0048	4	4	0	0
28	7/5 - 7/11	0.0204	2	4	0	0	0.0072	6	10	0	0
29	7/12 - 7/18	0.0970	7	11	0	0	0.0089	8	18	1	1
30	7/19 - 7/25	0.0532	4	15	3	3	0.0312	27	44	3	3
31	7/26 - 8/1	0.1146	8	24	1	4	0.0278	24	68	11	14
32	8/2 - 8/8	0.0807	6	30	2	5	0.1114	95	163	37	51
33	8/9 - 8/15	0.0853	6	36	2	8	0.1449	124	287	53	104
34	8/16 - 8/22	0.1363	10	46	6	14	0.2190	187	474	90	194
35	8/23 - 8/29	0.1552	11	57	9	23	0.2398	205	678	95	289
36	8/30 - 9/5	0.0755	6	63	12	35	0.1169	100	778	136	425
37	9/6 - 9/12	0.0791	6	69		35	0.0634	54	832		425
38	9/13 - 9/19	0.0178	1	70		35	0.0211	18	850		425
39	9/20 - 9/26	0.0384	3	73		35	0.0013	1	851		425
40	9/27 - 9/30	0.0128	1	74		35	0.0010	1	852		425
			74		35	0.471				425	0.498

Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT *

9/9/2021

Year	2018						2019						2020						2021*					
Origin	Hatchery			Natural			Hatchery			Natural			Hatchery			Natural			Hatchery			Natural		
Stat Week	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing
31	1	1	0%	-	-	-	1	1	0%	1	1	1%	-	-	-	-	-	-	-	0	-	-	0	-
32	5	6	0%	-	-	-	9	10	0%	0	1	1%	-	-	-	-	-	-	1	1	-	0	0	-
33	11	17	1%	2	2	0%	23	33	1%	3	4	2%	17	17	0%	0	0	0%	28	29	0%	3	3	0%
34	12	29	1%	3	5	1%	48	81	3%	5	9	5%	59	76	1%	3	3	0%	63	92	1%	0	3	0%
35	44	73	2%	7	12	2%	145	226	9%	7	16	8%	52	128	2%	6	9	1%	50	142	2%	1	4	1%
36	16	89	3%	5	17	3%	347	573	23%	24	40	20%	107	235	4%	5	14	2%	27	169	3%	0	4	1%
37	784	873	30%	87	104	21%	373	946	38%	9	49	25%	649	884	13%	34	48	7%	-	-	0%	-	-	0%
38	128	1,001	34%	7	111	23%	150	1,096	44%	0	49	25%	372	1256	19%	3	51	8%	-	-	0%	-	-	0%
39	123	1,124	38%	15	126	26%	86	1,182	47%	12	61	31%	1,600	2856	43%	6	57	9%	-	-	0%	-	-	0%
40	196	1,320	45%	65	191	39%	32	1,214	49%	11	72	37%	892	3748	56%	6	63	10%	-	-	0%	-	-	0%
41	560	1,880	64%	114	305	62%	521	1,735	69%	41	113	58%	874	4622	69%	178	241	37%	-	-	0%	-	-	0%
42	654	2,534	87%	85	390	80%	406	2,141	86%	17	130	66%	1122	5744	86%	228	469	72%	-	-	0%	-	-	0%
43	219	2,753	94%	36	426	87%	315	2,456	98%	59	189	96%	407	6151	92%	118	587	91%	-	-	0%	-	-	0%
44	166	2,919	100%	58	484	99%	26	2,482	99%	5	194	99%	492	6643	99%	59	646	100%	-	-	0%	-	-	0%
45	7	2,926	100%	5	489	100%	15	2,497	100%	1	195	99%	26	6669	100%	1	647	100%	-	-	0%	-	-	0%
46	0	2,926	100%	0	489	-	1	2,498	100%	0	195	99%	10	6679	100%	0	647	100%	-	-	0%	-	-	0%
47	0	2,926	100%	0	489	-	0	2,498	100%	1	196	100%	1	6680	100%	0	647	-	-	-	0%	-	-	-
48	0	2,926	100%	0	489	-	0	2,498	100%	0	196	-	0	6680	-	0	647	-	-	-	-	-	-	-
49	0	2,926	100%	0	489	-	2	2,500	100%	0	196	-	0	6680	-	0	647	-	-	-	-	-	-	-
50	0	2,926	100%	0	489	-	0	-	-	0	196	-	0	6680	-	0	647	-	-	-	-	-	-	-
51	1	2,927	100%	0	489	-	0	-	-	0	196	-	0	6680	-	0	647	-	-	-	-	-	-	-
Total	2,927	-	-	489	-	-	2,500	-	-	196	-	-	6,680	-	-	647	-	-	169	-	-	4	-	-

2021 Willapa Bay CHINOOK Broodstock Summary

FishBooks

updated 9/9/2021

preliminary/draft

Naselle Hatchery

as of 09/07/2021

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
5,000,000	500,000	5,500,000	3,000	1,833	0	1,833	148	0	10	11	0

Nemah Hatchery

as of 09/07/2021

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
3,300,000	330,000	3,630,000	3,000	1,210	0	1,210	0	0	0	0	0

Forks Creek Hatchery

as of 09/07/2021

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
400,000	40,000	440,000	3,000	147	0	147	0	0	0	0	0

Preliminary Draft

2021 WB Commercial Total CHINOOK NOR Fishery Impacts Summary

Stat Weeks	2T		2U		2N		2R		2M		In-season Estimated Natural-Origin Impacts		Preseason Predicted Natural-Origin Impacts	
	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	Weekly	Cumulative	Weekly	Cumulative
33	Closed													
34	Closed		Closed		32	24	Closed		Closed		24	24	15	15
35	Closed		Closed		5	4	Closed		35	32	36	60	24	39
36	Closed		Closed		4	3	Closed		39	36	39	100	24	63
37	Closed		Closed		0	0	Closed		0	0	0	100	23	86
38	0	0	0	0	0	0	Closed		0	0	0	100	50	136
39	0	0	0	0	0	0	0	0	0	0	0	100	47	183
40	0	0	0	0	0	0	0	0	0	0	0	100	38	221
41	0	0	0	0	0	0	0	0	0	0	0	100	7	228
42	0	0	0	0	0	0	0	0	0	0	0	100	18	246
43	0	0	0	0	0	0	0	0	0	0	0	100	4	250
44	Closed													
45	0	0	0	0	0	0	Closed		Closed		0	100	0	250
46	0	0	0	0	0	0	Closed		0	0	0	100	0	250
47	Closed		0	0	0	0	Closed		0	0	0	100	0	250
48	Closed													
Totals	0	0	0	0	41	31	0	0	39	36	100	100	250	250
MSF														